

Raw Sequence Listing Error Summary

ERROR DETECTED

SUGGESTED CORRECTION

SERIAL NUMBER: 09/732436 A

ATTN: NEW RULES CASES: PLEASE DISREGARD ENGLISH "ALPHIA" HEADERS, WHICH WERE INSERTED BY PTO SOFTWARE

1 Wrapped Nucleics
 Wrapped Aminos The number/text at the end of each line "wrapped" down to the next line. This may occur if your file was retrieved in a word processor after creating it. Please adjust your right margin to .3; this will prevent "wrapping."

2 Invalid Line Length The rules require that a line not exceed 72 characters in length. This includes white spaces.

3 Misaligned Amino Numbering The numbering under each 5th amino acid is misaligned. Do not use tab codes between numbers; use space characters, instead.

4 Non-ASCII The submitted file was not saved in ASCII(DOS) text, as required by the Sequence Rules. Please ensure your subsequent submission is saved in ASCII text.

5 Variable Length Sequence(s) _____ contain n's or Xaa's representing more than one residue. Per Sequence Rules, each n or Xaa can only represent a single residue. Please present the maximum number of each residue having variable length and indicate in the <220>-<223> section that some may be missing.

6 PatentIn 2.0 "bug" A "bug" in PatentIn version 2.0 has caused the <220>-<223> section to be missing from amino acid sequences(s) _____. Normally, PatentIn would automatically generate this section from the previously coded nucleic acid sequence. Please manually copy the relevant <220>-<223> section to the subsequent amino acid sequence. This applies to the mandatory <220>-<223> sections for Artificial or Unknown sequences.

7 Skipped Sequences (OLD RULES) Sequence(s) _____ missing. If intentional, please insert the following lines for each skipped sequence:
(2) INFORMATION FOR SEQ ID NO:X: (insert SEQ ID NO where "X" is shown)
(i) SEQUENCE CHARACTERISTICS: (Do not insert any subheadings under this heading)
(xi) SEQUENCE DESCRIPTION:SEQ ID NO:X: (insert SEQ ID NO where "X" is shown)

This sequence is intentionally skipped

Please also adjust the "(ii) NUMBER OF SEQUENCES:" response to include the skipped sequences.

8 Skipped Sequences (NEW RULES) Sequence(s) _____ missing. If intentional, please insert the following lines for each skipped sequence.
<210> sequence id number
<400> sequence id number
000

9 Use of n's or Xaa's (NEW RULES) Use of n's and/or Xaa's have been detected in the Sequence Listing.
Per 1.823 of Sequence Rules, use of <220>-<223> is MANDATORY if n's or Xaa's are present.
In <220> to <223> section, please explain location of n or Xaa, and which residue n or Xaa represents.

10 Invalid <213> Response Per 1.823 of Sequence Rules, the only valid <213> responses are: Unknown, Artificial Sequence, or scientific name (Genus/species). <220>-<223> section is required when <213> response is Unknown or is Artificial Sequence

11 Use of <220> Sequence(s) / / missing the <220> "Feature" and associated numeric identifiers and responses.
Use of <220> to <223> is MANDATORY if <213> "Organism" response is "Artificial Sequence" or "Unknown." Please explain source of genetic material in <220> to <223> section.
(See "Federal Register," 06/01/1998, Vol. 63, No. 104, pp. 29631-32) (Sec. 1.823 of Sequence Rules)

12 PatentIn 2.0 "bug" Please do not use "Copy to Disk" function of PatentIn version 2.0. This causes a corrupted file, resulting in missing mandatory numeric identifiers and responses (as indicated on raw sequence listing). Instead, please use "File Manager" or any other manual means to copy file to floppy disk.

13 Misuse of n n can only be used to represent a single nucleotide in a nucleic acid sequence. N is not used to represent any value not specifically a nucleotide.

OIPE

RAW SEQUENCE LISTING
PATENT APPLICATION: US/09/732,436A

DATE: 09/13/2001
TIME: 15:39:05

Input Set : A:\Cura-611.app
Output Set: N:\CRF3\09132001\I732436A.raw

ppr Sb

3 <110> APPLICANT: Prayaga, Sudhirdas
4 Shimkets, Richard
6 <120> TITLE OF INVENTION: NOVEL INTERFERON OMEGA AND NUCLEIC ACIDS ENCODING SAME
8 <130> FILE REFERENCE: 15966-615
10 <140> CURRENT APPLICATION NUMBER: 09/732,436A
C--> 11 <141> CURRENT FILING DATE: 1999-07-12
13 <150> PRIOR APPLICATION NUMBER: 60/169,887
14 <151> PRIOR FILING DATE: 1999-12-09
16 <150> PRIOR APPLICATION NUMBER: 60/170,230
17 <151> PRIOR FILING DATE: 1999-12-10
19 <160> NUMBER OF SEQ ID NOS: 22
21 <170> SOFTWARE: PatentIn Ver. 2.1
23 <210> SEQ ID NO: 1
24 <211> LENGTH: 475
25 <212> TYPE: PRT
26 <213> ORGANISM: Artificial Sequence
28 <220> FEATURE:
29 <223> OTHER INFORMATION: Description of Artificial Sequence: Curagen clone
30 AC015663_A
32 <400> SEQUENCE: 1
33 Ala Cys Cys Ala Ala Thr Gly Gly Thr Cys Thr Cys Cys Thr Thr Gly
34 1 5 10 15
36 Cys Thr Gly Gly Thr Gly Gly Cys Ala Thr Thr Gly Gly Thr Gly Ala
37 20 25 30
39 Thr Gly Ala Thr Cys Thr Cys Cys Thr Gly Cys Cys Ala Cys Ala Thr
40 35 40 45
42 Cys Thr Ala Thr Thr Cys Cys Cys Thr Thr Thr Cys Thr Gly Cys
43 50 55 60
45 Gly Ala Cys Cys Thr Gly Cys Cys Thr Ala Ala Ala Gly Cys Thr Cys
46 65 70 75 80
48 Ala Gly Gly Thr Gly Ala Thr Thr Thr Cys Thr Gly Cys Cys Cys Thr
49 85 90 95
51 Cys Cys Ala Thr Ala Ala Gly Ala Thr Gly Cys Ala Cys Cys Ala Gly
52 100 105 110
54 Cys Ala Gly Ala Thr Cys Thr Thr Cys Ala Gly Cys Cys Thr Cys Thr
55 115 120 125
57 Thr Thr Thr Ala Cys Ala Cys Ala Ala Gly Gly Gly Cys Thr Thr
58 130 135 140
60 Gly Thr Cys Thr Gly Ala Thr Gly Cys Thr Thr Gly Gly Ala Ala Thr
61 145 150 155 160
63 Ala Gly Gly Cys Cys Thr Thr Cys Cys Thr Gly Gly Ala Cys Ala
64 165 170 175
66 Ala Ala Cys Thr Cys Cys Ala Gly Ala Cys Thr Gly Gly Ala Thr Thr
67 180 185 190
69 Thr Cys Ala Thr Cys Ala Gly Cys Ala Gly Cys Thr Gly Gly Ala Ala
70 195 200 205
72 Gly Ala Cys Cys Thr Gly Gly Ala Gly Ala Cys Cys Thr Gly Cys Thr

Does Not Comply
Corrected Diskette Needed

RAW SEQUENCE LISTING
PATENT APPLICATION: US/09/732,436A

DATE: 09/13/2001
TIME: 15:39:05

Input Set : A:\Cura-611.app
Output Set: N:\CRF3\09132001\I732436A.raw

```

73      210          215          220
75 Thr Thr Gly Gly Thr Ala Thr Ala Gly Ala Gly Ala Thr Gly Gly
76 225          230          235          240
78 Gly Ala Ala Gly Cys Ala Ala Gly Ala Gly Thr Cys Thr Gly Cys Cys
79          245          250          255
81 Cys Thr Gly Gly Ala Ala Ala Thr Thr Gly Ala Gly Gly Gly Cys Cys
82          260          265          270
84 Cys Thr Ala Cys Ala Cys Thr Gly Gly Cys Cys Ala Thr Ala Ala Ala
85          275          280          285
87 Gly Ala Gly Gly Thr Ala Cys Thr Thr Cys Cys Ala Gly Gly Gly Ala
88          290          295          300
90 Gly Thr Ala Cys Ala Thr Thr Cys Thr Thr Cys Thr Thr Gly Ala
91 305          310          315          320
93 Ala Ala Gly Ala Gly Ala Gly Ala Ala Ala Thr Thr Cys Ala Gly
94          325          330          335
96 Gly Ala Ala Cys Thr Gly Thr Ala Cys Cys Thr Gly Gly Ala Gly
97          340          345          350
99 Gly Thr Thr Gly Thr Cys Gly Thr Ala Ala Thr Gly Gly Thr Ala Ala
100         355          360          365
102 Ala Gly Gly Gly Ala Thr Thr Thr Thr Cys Thr Thr Ala Ala Gly
103         370          375          380
105 Cys Ala Cys Ala Ala Ala Ala Cys Thr Thr Cys Ala Ala Gly Ala Ala
106 385          390          395          400
108 Ala Ala Ala Gly Ala Gly Ala Ala Cys Ala Gly Ala Ala Gly Ala Ala
109          405          410          415
111 Ala Ala Gly Ala Gly Ala Ala Cys Thr Gly Cys Ala Ala Ala Ala Ala
112          420          425          430
114 Ala Ala Ala Thr Cys Thr Gly Gly Ala Ala Ala Ala Gly Gly Thr Ala
115          435          440          445
117 Ala Thr Cys Thr Ala Thr Thr Thr Ala Gly Cys Ala Gly Ala Ala Gly
118          450          455          460
120 Ala Gly Thr Gly Ala Ala Ala Gly Cys Thr Gly
121 465          470          475
124 <210> SEQ ID NO: 2
125 <211> LENGTH: 610
126 <212> TYPE: PRT
127 <213> ORGANISM: Artificial Sequence
129 <220> FEATURE:
130 <223> OTHER INFORMATION: Description of Artificial Sequence: Curagen clone
132 <400> SEQUENCE: 2
133 Ala Cys Cys Ala Ala Thr Gly Gly Thr Cys Thr Cys Cys Thr Thr Gly
134    1          5          10          15
136 Cys Thr Gly Gly Thr Gly Gly Cys Ala Thr Thr Gly Gly Thr Gly Ala
137          20          25          30
139 Thr Gly Ala Thr Cys Thr Cys Cys Thr Gly Cys Cys Ala Cys Ala Thr
140          35          40          45
142 Cys Thr Ala Thr Thr Cys Cys Cys Thr Thr Thr Cys Thr Gly Cys
143          50          55          60
145 Gly Ala Cys Cys Thr Gly Cys Cys Thr Asn Asn Asn Asn Asn Asn

```

RAW SEQUENCE LISTING
PATENT APPLICATION: US/09/732,436A

DATE: 09/13/2001
TIME: 15:39:05

Input Set : A:\Cura-611.app
Output Set: N:\CRF3\09132001\I732436A.raw

146	65	70	75	80
148	Asn	Asn	Asn	Asn
149	Asn	Asn	Asn	Asn
151	Asn	Asn	Asn	Asn
152	Asn	Asn	Asn	Asn
154	Asn	Asn	Asn	Asn
155	Asn	Asn	Asn	Asn
157	Asn	Asn	Asn	Asn
158	Asn	Asn	Asn	Asn
160	Asn	Asn	Asn	Asn
161	Asn	Asn	Asn	Asn
163	Asn	Asn	Asn	Asn
164	Asn	Asn	Asn	Asn
166	Asn	Asn	Asn	Asn
167	Asn	Asn	Asn	Asn
169	Asn	Asn	Asn	Asn
170	Asn	Asn	Asn	Asn
172	Ala	Ala	Ala	Gly
173	Cys	Thr	Cys	Ala
175	Gly	Cys	Cys	Cys
176	Thr	Gly	Cys	Thr
178	Cys	Ala	Cys	Cys
179	Ala	Gly	Cys	Ala
181	Gly	Cys	Cys	Thr
182	Thr	Cys	Thr	Thr
184	Thr	Thr	Gly	Gly
185	Gly	Gly	Cys	Thr
187	Gly	Gly	Gly	Ala
188	Ala	Ala	Ala	Thr
190	Thr	Gly	Gly	Ala
191	Cys	Ala	Cys	Ala
193	Ala	Gly	Gly	Ala
194	Thr	Gly	Gly	Thr
196	Gly	Cys	Thr	Gly
197	Thr	Gly	Gly	Ala
199	Ala	Cys	Cys	Thr
200	Thr	Gly	Cys	Thr
202	Thr	Gly	Gly	Ala
203	Ala	Gly	Gly	Ala
205	Ala	Ala	Ala	Gly
206	Gly	Ala	Ala	Ala
208	Ala	Gly	Gly	Gly
209	Gly	Cys	Cys	Cys
211	Ala	Ala	Ala	Ala
212	Gly	Gly	Gly	Gly
214	Ala	Gly	Gly	Ala
215	Gly	Gly	Gly	Ala
217	Ala	Ala	Ala	Gly
218	Gly	Gly	Gly	Ala

RAW SEQUENCE LISTING
PATENT APPLICATION: US/09/732,436A

DATE: 09/13/2001
TIME: 15:39:05

Input Set : A:\Cura-611.app
Output Set: N:\CRF3\09132001\I732436A.raw

220 Ala Ala Thr Thr Cys Ala Gly Gly Ala Ala Cys Thr Gly Thr Ala Cys
 221 465 470 475 480
 223 Cys Thr Gly Gly Ala Gly Gly Thr Thr Gly Thr Cys Gly Thr Ala
 224 485 490 495
 226 Ala Thr Gly Gly Thr Ala Ala Ala Gly Gly Gly Ala Thr Thr Thr
 227 500 505 510
 229 Thr Cys Thr Thr Ala Ala Gly Cys Ala Cys Ala Ala Ala Cys Thr
 230 515 520 525
 232 Thr Cys Ala Ala Gly Ala Ala Ala Ala Gly Ala Gly Ala Ala Cys
 233 530 535 540
 235 Ala Gly Ala Ala Gly Ala Ala Ala Gly Ala Gly Ala Ala Cys Thr
 236 545 550 555 560
 238 Gly Cys Ala Ala Ala Ala Ala Ala Ala Thr Cys Thr Gly Gly Ala
 239 565 570 575
 241 Ala Ala Ala Gly Gly Thr Ala Ala Thr Cys Thr Ala Thr Thr Ala
 242 580 585 590
 244 Gly Cys Ala Gly Ala Ala Gly Ala Gly Thr Gly Ala Ala Gly Cys
 245 595 600 605
 247 Thr Gly
 248 610
 251 <210> SEQ ID NO: 3
 252 <211> LENGTH: 1887
 253 <212> TYPE: DNA
 254 <213> ORGANISM: Artificial Sequence
 256 <220> FEATURE:
 257 <223> OTHER INFORMATION: Description of Artificial Sequence: Curagen clone
 258 AF038458_A
 260 <400> SEQUENCE: 3
 261 atggccatcc tcccgttgct cctgtgcctg ctggcgctgg cccctgcctc atccccaccc 60
 262 cagtcagcca caccaggccc atgtccccgc cgctggcgct gccagacaca gtgcgtgcc 120
 263 ctaagcgtgc tgtgcccagg ggcaggccctc ctgttcgtgc caccctcgct ggacctgggg 180
 264 gcagccgagc tgccgctggc agacaacttc atcgccctccg tgcggccggc cgacactggcc 240
 265 aacatgacag gcctgctgca tctgagccctg tcgcggaaaca ccatccggca cgtggctgcc 300
 266 ggccgccttc cgcacactgca ggcctgcgt gccctgcacc tggatggcaa ccgcgtgacc 360
 267 tcactggcg agggccagct ggcggccctg gtcaacttgc gcccacccat cctcagcaac 420
 268 aaccagctgg cagcgctggc ggccggcgcc ctggatgatt gtgcggagac actggaggac 480
 269 ctgcacccct cctacaacaa ctcgagcag ctgcctggg agggcctggg ccgcctggc 540
 270 aacgtcaaca cgttgggcct cgaccacaaac ctgtggctt ctgtgcggc cggcgctttt 600
 271 tcccgcctgc acaagctggc cccgctggac atgacccatcca accgcctgac cacaatccca 660
 272 cccgacccac tcttctcccg cctgcggccctg ctgcggcaggc cccggggctc gcccgcctct 720
 273 gcccggcggc tggcctttgg cgggaaccccc ctgcactgca actgcgagct ggtgtggctg 780
 274 cgtcgccctgg cgcgggagga cgacactcgag gcctgcgcgt ccccacctgc tctggcgcc 840
 275 cgctacttct gggcggtggg cgaggaggag tttgtctgc agccgcggct ggtgactcac 900
 276 cgctcaccac ctctggctgt gcccgcaggc cggccggctg ccctgcgtg ccgggcagtg 960
 277 ggggacccag agccccgtgt gcgttgggtg tcacccagg gcccggctgt aggcaactca 1020
 278 agccgtgccc ggcgccttccc caatgggacg ctggagctgc tggtcacccga gcccgggtgat 1080
 279 ggtggcatct tcacccatc tgcggccaaat gcagctggcg aggccacagg tgctgtggag 1140
 280 ctgactgtgg gtcccccacc acctccctcag ctgcaccaaca gcaccagctg tgacccccc 1200
 281 cgggacgggg atcctgatgc ttcacccca ccctccgtg cctctgcttc tgccaaagggt 1260

RAW SEQUENCE LISTING
PATENT APPLICATION: US/09/732,436A

DATE: 09/13/2001
TIME: 15:39:05

Input Set : A:\Cura-611.app
Output Set: N:\CRF3\09132001\I732436A.raw

282 gcccacactg ggccccctac cgaccgtggc gtccaggtga ctgagcacgg ggcacacgct 1320
 283 gctttgtcc agtggccgga tcagcgccct atccgggca tccgcatgtt ccagatccag 1380
 284 tacaacagct cggctgatga catcctcgtc tacaggatga tcccggccgaa gagccgctcg 1440
 285 ttccctgtga cggacactggc gtcaggccgg acctacgatc tgtgcgtgtc cgcgtgtat 1500
 286 gaggacagcg ccacggggct cacggccacg cggcctgtgg gctgcgcccgtt cttccacc 1560
 287 gaacctgcgc tgccggccatg cggggcgcgg cacgtccct tccctggcgg cacgatgatc 1620
 288 atcgcgctgg gcggcgtcat cgtagcctcg gtactggctc tcatcttcgt gctgctaatt 1680
 289 cgctacaagg tgcacggcgg ccagcccccc ggcaaggcca agattccgc gcctgttagc 1740
 290 agcgtttgc cccagaccaa cggccgcctg gcccccacgc ccacgccccgc ccccccgc 1800
 291 cccggagcccg cggcgtctag gccccacacc gtggtccagc tggactgcga gcccctgggg 1860
 292 cccggccacg aacctgtggg accctag 1887
 295 <210> SEQ ID NO: 4
 296 <211> LENGTH: 365
 297 <212> TYPE: PRT
 298 <213> ORGANISM: Equus caballus
 300 <400> SEQUENCE: 4
 301 Thr Cys Cys Cys Ala Gly Ala Gly Gly Cys Cys Cys Ala Gly Gly Cys
 302 1 5 10 15
 304 Cys Gly Cys Gly Thr Cys Thr Gly Thr Cys Cys Thr Cys Cys Ala Cys
 305 20 25 30
 307 Gly Ala Gly Ala Thr Gly Cys Thr Cys Cys Ala Gly Cys Ala Gly Ala
 308 35 40 45
 310 Thr Cys Thr Thr Cys Ala Gly Cys Cys Thr Cys Thr Cys Thr Cys Ala
 311 50 55 60
 313 Cys Ala Cys Ala Gly Ala Gly Cys Gly Cys Thr Cys Gly Thr Cys Thr
 314 65 70 75 80
 316 Gly Cys Thr Gly Cys Cys Thr Gly Gly Ala Ala Cys Ala Cys Gly Ala
 317 85 90 95
 319 Cys Cys Cys Thr Cys Cys Thr Gly Gly Ala Cys Gly Ala Ala Cys Thr
 320 100 105 110
 322 Cys Thr Gly Cys Ala Cys Gly Gly Ala Cys Thr Cys Cys Thr Thr
 323 115 120 125
 325 Cys Gly Gly Cys Ala Gly Cys Thr Gly Gly Ala Ala Gly Ala Cys Cys
 326 130 135 140
 328 Thr Gly Gly Ala Cys Ala Cys Cys Thr Gly Thr Thr Gly Gly Ala
 329 145 150 155 160
 331 Gly Cys Ala Gly Gly Ala Gly Ala Thr Gly Gly Gly Ala Gly Ala Gly
 332 165 170 175
 334 Gly Ala Ala Gly Ala Ala Thr Cys Thr Gly Cys Cys Cys Thr Gly Gly
 335 180 185 190
 337 Gly Ala Ala Cys Thr Gly Thr Gly Cys Gly Cys Cys Cys Thr Ala Cys
 338 195 200 205
 340 Ala Cys Thr Gly Gly Cys Cys Gly Thr Gly Ala Ala Gly Ala Gly Gly
 341 210 215 220
 343 Thr Ala Cys Thr Thr Cys Cys Gly Gly Gly Ala Thr Cys Cys
 344 225 230 235 240
 346 Ala Thr Cys Thr Cys Thr Ala Cys Cys Thr Gly Ala Ala Ala Gly Ala
 347 245 250 255
 349 Gly Ala Ala Gly Ala Ala Ala Thr Ala Cys Ala Gly Thr Gly Ala Cys

Use of n and/or Xaa has been detected in the Sequence Listing.
 Review the Sequence Listing to insure a corresponding explanation is presented in the <220> to <223> fields of each sequence using n or Xaa.

09/732,436A^b

<210> 11

<211> 112

<212> PRT

<213> Unknown

<400> 11

see item 11 on Erra Summary Sheet

VERIFICATION SUMMARY
PATENT APPLICATION: US/09/732,436A

DATE: 09/13/2001
TIME: 15:39:06

Input Set : A:\Cura-611.app
Output Set: N:\CRF3\09132001\I732436A.raw

L:11 M:271 C: Current Filing Date differs, Replaced Current Filing Date
L:547 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:8
L:626 M:258 W: Mandatory Feature missing, <220> FEATURE:
L:626 M:258 W: Mandatory Feature missing, <223> OTHER INFORMATION: